

# Map & Photo Legend



SE-01-02 Constantine Harbor viewed from the east.



SE-01 Constantine Harbor viewed from the northeast.



SE-01 Constantine Harbor viewed from the southwest.

- Free-oil Recovery, Open Water
- Exclusion Booming
- Protected-water Boom
- Tidal-seal Boom
- Calm-water Boom
- Staging Area
- Helicopter
- Air Strip
- Eagle Nest

**NOTES:**  
Currents > 4 knots can occur near EX-02b.

## Geographic Response Strategies for

Prince William Sound Subarea

# Constantine Harbor, PWS-SE01

Center of map at 60° 21.19' N Lat., 146° 36.83' W Lon.



This is not intended for navigational use.

Soundings in fathoms

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
PWS SE01-01	<b>Port Etches</b> Nearshore waters in the general area of: Lat. 60° 19.70 N Lon. 146° 36.16 W	<b>Free-oil Recovery-Shallow Water</b> Maximize free-oil recovery in the offshore & nearshore environment of Port Etches depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Port Etches. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Marine	Marine Chart 16709	Same as PWS-SE-01-02	Vessel master should have local knowledge.
PWS SE01-02	<b>Constantine Harbor</b> Approximate location of <b>outside boom</b> array: a. Lat. 60° 21.19 N Lon. 146° 36.83 W  Approximate location of <b>inside boom</b> array: b. Lat. 60° 21.19 N Lon. 146° 36.92 W	<b>Exclusion</b> Exclude oil from entering Constantine Harbor.	Transport equipment by vessel (class 2/3/4). Deploy two arrays as follows: a. Place 50' of tidal-seal boom on N shore and 100' on the SW shore and secure. Deploy harbor boom and attach to tidal-seal boom. Anchor in place in chevron shape. b. Deploy inside the first with 50' of tidal-seal boom on each shore protected-water boom.  Tend throughout the tide.	<b>Deployment Equipment</b> 3000 ft. calm-water boom 1200 ft. protected-water boom 3 section ≥50 ft. tidal-seal boom 1 section ≥100 ft. tidal-seal boom 60 ea. anchor systems (~40 lbs.) 8 ea. anchor stakes <b>Vessels</b> 1 landing craft 3 class 3/4 2 class 6 <b>Personnel/Shift</b> 15 ea. vessel crew <b>Tending Vessels</b> 2 ea. class 3/4 2 ea. class 6 <b>Personnel/Shift</b> 10 ea. vessel crew	Vessel platform	Marine Chart 16709 Permission of landowner (Chugach Alaska Corp.) should be obtained.	Fish-inter-tidal spawning, salmon (May-Sept.) Marine mammals-harbor seals, sea otters pupping area (April-June) Birds-waterfowl concentrations, seabird nesting on spire rocks (April-Oct.), eagle nests, shorebird concentration (Apr.-May), black oystercatcher nesting Human use-commercial fishing, high recreational use.	Vessel masters should have local knowledge. SERVS maintains 2 moorings in Port Etches. If oiling is heavy deploy marine or shoreside recovery. FOSC Historic Properties Specialist should MONITOR on-site operations. Deployed: SERVS 6/1999
PWS SE01-03	<b>Constantine Harbor</b> Lat. 60° 20.70 N Lon. 146° 39.65 W	<b>Exclusion</b> Exclude oil from impacting the sheltered shoreline in Constantine Harbor.	Transport equipment by vessel (class 2/3/4). Deploy boom with vessels (class 3/4/6). Place tidal-seal boom across the indicated area. Tend throughout the tide.	<b>Deployment Equipment</b> 900 ft. tidal-seal boom 4 ea. anchor systems (~40 lbs.) 4 ea. anchor stakes <b>Vessels/Personnel/Shift</b> Same as PWS-SE01-02 <b>Tending Vessels/Personnel/Shift</b> Same as PWS-SE01-02	Vessel platform	Marine Chart 16709 Landing strip located at: Lat. 60° 20.58' N Lon. 146° 40.68' W	Same as PWS-SE01-02	Vessel masters should have local knowledge. Deployed: SERVS 6/1999